

REMARKS/ARGUMENTS

Claims 1-2, 4-9, 13-18 and 19-23 are active.

Applicants thank the Examiner for reconsidering the Restriction Requirement and combining groups I-IV for examination. That Group V remains withdrawn is reflected in the status identifier accompanying Claim 22 as presented here.

Claim 1 is amended to define the four layers provided in the antireflection coating where the first and third layers comprise a mixed oxide of Sn and Zn doped or not doped; and the second and fourth layers comprise SiO<sub>2</sub>. Support for these modifications is found in Claims 10-12 and [0044] in the PG-PUB version of the specification.

The remaining changes are for clarity and to remove the items noted at page 3 of the Action in the rejection under 35 USC 112, second paragraph and the objection under 37 CFR 1.75(c). Thus, that rejection and that objection are no longer applicable.

No new matter is added.

The claims here are to a transparent (e.g., glass) substrate with an antireflection laminate including 4 layers with the first and third layers having refractive indices of 1.8 to 2.2 and the second and fourth having an Ri of 1.35 and 1.65. Each layer is also defined by a particular geometrical thickness and as noted above, each layer is defined by specific oxides that are comprised in those layers.

The main focus of this application relates to antireflection coatings for windows in buildings, display cabinets, etc. The original claims are similar to the original claims of the related co-pending application 10/296,410 where the main focus is solar cells. A copy of the recent Official Action in that co-pending application is filed here in an Information Disclosure Statement.

In the Action, the Examiner has rejected Claims 1-17, 19-21 and 23 as being the same as what was previously described in FR 2,800,998 (citing to the U.S. equivalent U.S. 6,924,037). An obviousness rejection has also been raised for claim 18 combining the disclosures of Joret and Katayama for the particular arrangement in Claim 18. Claim 18 has been cancelled and as such this rejection is no longer applicable.

Joret describes a four-layer laminate antireflection coating including a variety of oxides (see the paragraph bridging col. 4-5).

In col., 4, lines 32-38, Joret describes that “The materials most suitable for forming the first and/or the third layer, those having a high index, are based on one or more metal oxides chosen from zinc oxide ZnO, tin oxide SnO<sub>2</sub> and zirconium oxide ZrO<sub>2</sub>. They may also be based on one or more nitrides chosen from silicon nitride Si<sub>3</sub>N<sub>4</sub> and aluminium nitride AlN.”

In Examples 1-13, the four layers include SnO<sub>2</sub>, TiO<sub>2</sub> and Si<sub>3</sub>N<sub>4</sub> (col. 9-13).

Joret neither describes or suggests the specific arrangement of layers in which the first and third layers comprise a mixed oxide of Sn and Zn doped or not doped; and the second and fourth layers comprise SiO<sub>2</sub>.

Accordingly, the claims are not anticipated by what is described in Joret. Withdrawal of the rejection is requested.

The obviousness-type double patenting rejection citing U.S. 6,927,037 is believed to be an error as that patent is titled: “Ion-exchange resin/enzyme activity assay.” It is presumed that this rejection meant to cite the same Joret patent in the rejection under 35 USC 102(b) which is U.S. patent no. 6,924,037.

None of the claims in that Joret patent specifically describe or suggest the specific arrangement of layers in which the first and third layers comprise a mixed oxide of

U.S. application serial no. 10/519,098  
Reply to Official Action of June 17, 2008

Sn and Zn doped or not doped; and the second and fourth layers comprise SiO<sub>2</sub> as claimed in the present application.

Reconsideration and withdrawal of this rejection is requested.

A Notice of Allowance for all pending claims is kindly requested.

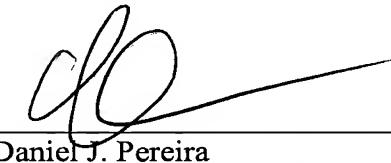
Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Norman F. Oblon

Customer Number

22850

Tel: (703) 413-3000  
Fax: (703) 413 -2220  
(OSMMN 06/04)

  
\_\_\_\_\_  
Daniel J. Pereira  
Registration No. 45,518